FX-200 series

Functional X-ellence Station



Standard Package Components

- FX main unit
- Battery (BDC72)
- Battery charger (CDC77)
- Power Cable
- Lens cap
- Lens hood
- Tool pouch
- Precision screwdriver
- Lens brush
- Adjusting pin×2
- Silicon cloth
- Quick manual
- USB flash drive(Manual)
- Laser caution sign-board
- Carrying case
- Carrying strap

		FX-201	FX-202	
Felescope				
Magnification / Resolving power		30x/2		
Others		Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm		
		(1.9in.) for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m),		
		Minimum focus: 1.3m (4.3ft.), Reticle illumination: 5 brightness levels		
Angle measurement				
Display resolution		0.5" / 1" (0.0001 / 0.0002	2gon, 0.002 / 0.005mil)	
Accuracy (ISO 17123-3:2001)		1"	2"	
Dual-axis compensator / Collimation compensation		Dual-axis liquid tilt sensor, worl	king range: ±6' (±111mgon) /	
		Collimation compensation available		
Distance measurement				
aser output ^{*1}		Reflectorless mode: Class 3R	/ Prism/sheet mode: Class 1	
Veasuring range	Reflectorless*3	0.3 to 800m (2,620ft.) / Under good conditions*6 : 1,000m (3,280ft.)		
(under average conditions ^{*2})	Reflective sheet*4*5	RS90N-K: 1.3 ~ 500m, RS50N-K: 1.3 ~ 300m , RS10N-K: 1.3 ~ 100m		
, o ,	Mini prism	1.3 to 500m (1,640ft.)		
	One prism		1.3 to 5,000m (4.3 to 16,400ft.) / Under good conditions *5: 1.3 to 6,000m (19,680ft.)	
Display resolution	Fine/Rapid measurement	0.0001m(0.001ft. / 1/16in.) / 0.001m (0.005ft. / 1/8in.) (selectable)		
Sisplay resolution	Tracking/Road measurement	0.001m (0.005ft. / 1/8in.) / 0.01m (0.1ft. / 1/2in.) (selectable)		
Accuracy ^{*2}	Reflectorless*3	(2 + 2ppm x D) mm ^{*7}		
ISO 17123-4:2001)	Reflective sheet*4	(2 + 2ppm x D) mm		
(D=measuring distance in mm)	Prism	(2 + 2ppm x D) mm (1.5 + 2ppm x D) mm		
D=measuring distance in min) Measuring time *8	1115111	Fine: 0.9s (initial 1.5s), Rapid: 0.6s (initial 1.3s), Tracking: 0.4s (initial 1.3s)		
OS, Interface and Data manager	aant	Fille. 0.95 (Illitidi 1.55), Kapid. 0.65 (Illi	Itidi 1.35), Hdcking. 0.45 (Initidi 1.35)	
Operating system	lient	Windows Embed	Idad Compact7	
Display / Keyboard		3.5inch, Transmissive TFT QVGA		
Dishiga / Keanogin			0	
Canata a la cationa *9		Touch screen, Automatic brightnes On both faces (Face 2 is or		
Control panel location *9				
Frigger key		On right instrur	ment support	
Data storage	Internal memory	1GB internal memory (include	es memory for program files)	
	Plug-in memory device	USB flash		
nterface	、 *o	Serial RS-232C, USB2		
Bluetooth modem (Factory Opti	on)	Bluetooth Class 1, Operat	ting range: up to 10m	
General				
Guide light *11		Green LED (524nm) an	()·	
+11		Operating range: 1.3 to		
aser-pointer *11		Coaxial red laser u		
Calendar / clock function		Yes		
Levels	Graphic	6'(inner	,	
	Circular level	10'/2		
Optical plummet		Magnification: 3x, Minimum focus: 0	1.3m (11.8in.) from tribrach bottom	
aser plummet (option)		Red laser diode (635nm±10nm), Beam accura		
Tribrach		Detach		
Dust and water protection		IP65 (IEC 60	,	
Operating temperature ^{*11}		-20 to 60°C (-4		
Size (with handle)		191(W)x190(D))x348(H)mm	
Instrument height		192.5mm from tribrac	ch mounting surface	
		236mm +5/-3mm fr	om tibrach bottom	
Weight with battery & tribrach		Approx. 5.7k		
Power supply				
Battery	BDC72	Li-ion recharge	eable battery	
Operating time (20°C)	BDC72		measurement every 30 seconds)	

*1 IEC60825-1:Ed.2.0:2007 / FDA CDRH 21 CFR Part 1040.10 and 11

*2 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation.

*3 Fine mode. With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 k. or less. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions.

*4 When the measuring beam's incidence angle is within 30° in relation to the reflective sheet target.

*5 Measuring range in temperatures of -30 to -20°C (-22 to -4°F) with Low Temperature models and 50 to 60°C (122 to 140°F) with High Temperature models: RS90N-K: 1.3 to 300m (4.3 to 980ft), RS50N-K: 1.3 to 180m (4.3 to 590ft), RS10N-K: 1.3 to 60m (4.3 to 190ft)

- Specifications may vary by region and are subject to change without notice. - Bluetooth®word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Topcon is under license.

*6 Good conditions: No haze, visibility about 40km (25 miles), overcast, no scintillation.

*7 Measuring range:0.3 to 200m

*8 Typical, under good conditions. Reflectorless measurement time may vary according to measuring objects, observation situations and environmental conditions.

- *9 Usage approval of Bluetooth wireless technology varies according to country. Please consult your local oce or representative in advance.
- *10 No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain.

*11 The laser-pointer and the guide light do not work simultaneously.

*12 Low Temperature models:-30 to 50 °C (-22 to 122°F) is available on built-to-order basis.

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SPECIFICATIONS

SOKKIN



For professionals like you

- High performance EDM for rapid, repeatable measurements
- Modern, intuitive onboard MAGNET[®] Field software
- Convenient EDM trigger key
- Reflectorless laser measurement



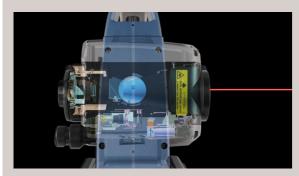
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able measurements d software

Professional results from basic to advanced applications



Improve topography and stake out with features to achieve faster and more efficient workflows



Distance Measurement Accuracy (Prism Mode)

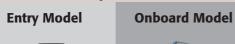
Previous Model	500m	
Measurin	g Range(Reflectorless Mode)	Distance 1,000m
Previous Model	2.0mm+2ppm	
FX-200	1.5mm+2ppm	

Newly Designed High-Performance Class EDM

Especially effective in surveying control points that require high-accuracy, and in cross sectional surveying in large areas with reflectorless measurement mode.

All Features are at Top Class

	Accuracy	Measuring Range
Prism-Mode	1.5mm+2ppm	6,000m*
Reflectorless	2.0mm+2ppm	1,000m*
Total station Line	* Good atmospheric condition	





High-end Model



Discover MAGNET Field features and benefits.

- Intuitive user interface
- Advanced roading tool set
- Vast library of Import / Export file formats
- Calculate, contour, and compare surfaces
- Surface staking with automatic Digital Terrain Model creation
- Colorized cut and fill indicators, as well as volume calculations
- Direct connectivity to your private Company Account for easy data exchange and quick chat
- Microsoft Bing Maps[®] for real-time images behind your points, lines, and imported design files





Guide Light System

Anybody can move to Stake Out Line easily. Green and Red colored lights will show you the direction to move.





Target Key & Screw System

By using tangent screws for sighting, you can measure a distance with a singlebutton click. Work efficiently and increases productivity for sighting task such as Stake Out, Topography, and Elevation Stakes.